

Application No.: 10/713174

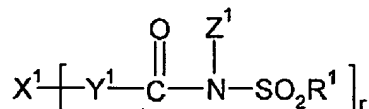
Case No.: 58627US002

Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently amended) A compound of Formula I:



I

wherein

X^1 is a substrate-reactive functional group selected from a carboxy, halocarbonyl, halocarbonyloxy, cyano, hydroxy, mercapto, isocyanato, halosilyl, alkoxysilyl, acyloxysilyl, azido, aziridinyl, ~~haloalkyl~~, tertiary amino, primary aromatic amino, secondary aromatic amino, disulfide, alkyl disulfide, benzotriazolyl, phosphono, phosphoroamido, or phosphato, ~~or ethylenically unsaturated group~~;

Y^1 is ~~a single bond or~~ a divalent group comprising at least one heteroalkylene having an oxy group or a $-NR^d$ group, at least one alkylene, or combinations thereof, wherein Y^1 can optionally further comprise an selected from an alkylene, heteroalkylene, arylene, carbonyl, carbonyloxy, carbonylimino, oxy, thio, $-NR^d$ where R^d is hydrogen or alkyl, or combinations thereof;

Z^1 is an alkyl, aryl, or $-(CO)R^a$ wherein R^a together with R^1 and groups to which they are attached form a four to eight membered heterocyclic ~~or heterobicyclic~~ group having a nitrogen heteroatom and a sulfur heteroatom, wherein said heterocyclic ~~or heterobicyclic~~ group can be fused to an optional ~~aromatic group, optional saturated or unsaturated cyclic group, or optional saturated or unsaturated bicyclic group~~ benzene ring;

R^1 is an alkyl, fluoroalkyl, chloroalkyl, aryl, $NR^b R^c$ wherein R^b and R^c are each an alkyl group ~~or taken together with the nitrogen atom to which they are attached form a four to eight membered cyclic group~~, or R^1 together with R^a and the groups to which they are attached

Application No.: 10/713174

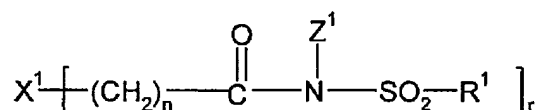
Case No.: 58627US002

form the four to eight membered heterocyclic or ~~heterobicyclic~~ group that can be fused to the optional aromatic group, optional saturated or unsaturated cyclic group, or optional saturated or unsaturated bicyclic group benzene ring;

r is equal to 1 when X^1 is a monovalent group or equal to 2 when X^1 is a divalent group; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

2. (Original) The compound of claim 1, wherein the compound has a formula

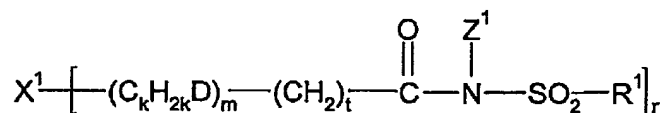


wherein

n is an integer of 1 to 100; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

3. (Currently amended) The compound of claim 1, wherein the compound has a formula



wherein

D is oxygen, ~~sulfur~~, or NH;

t is an integer of 0 to 12;

k is an integer of 2 to 4;

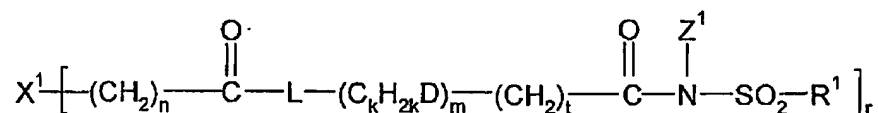
m is an integer of 1 to 200; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

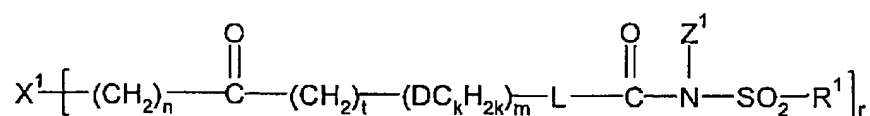
Application No.: 10/713174

Case No.: 58627US002

4. (Currently amended) The compound of claim 1, wherein the compound has a formula



or



wherein

D is oxygen, ~~sulfur~~, or NH;

n is an integer of 1 to 100;

m is an integer of 1 to 200;

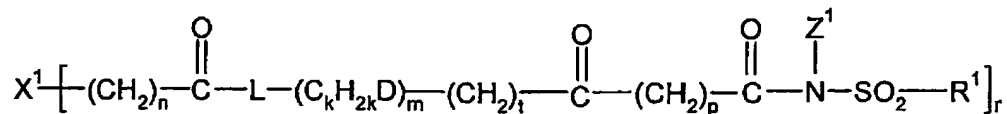
t is an integer of 0 to 12;

k is an integer of 2 to 4;

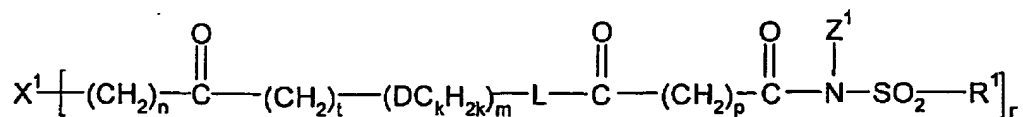
L is oxygen or NR^d where R^d is hydrogen or alkyl; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

5. (Currently amended) The compound of claim 1, wherein the compound is of formula



or



Application No.: 10/713174

Case No.: 58627US002

wherein

D is oxygen, ~~sulfur~~, or NH;

n is an integer of 1 to 100;

m is an integer of 1 to 200;

t is an integer of 0 to 12;

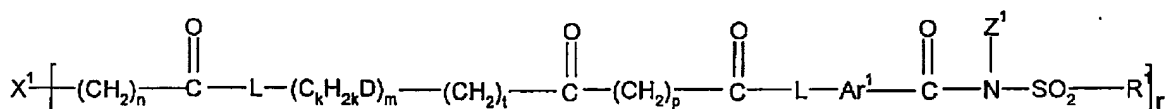
k is an integer of 2 to 4;

p is an integer of 1 to 10;

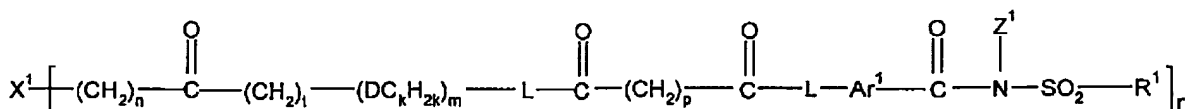
L is oxygen or NR^d where R^d is hydrogen or alkyl; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

6. (Currently amended) The compound of claim 1, wherein the compound is of formula



or



wherein

D is oxygen, ~~sulfur~~, or NH;

n is an integer of 1 to 100;

m is an integer of 1 to 200;

t is an integer of 0 to 12;

k is an integer of 2 to 4;

p is an integer of 1 to 10;

Application No.: 10/713174

Case No.: 58627US002

L is oxygen or NR^d where R^d is hydrogen or alkyl;

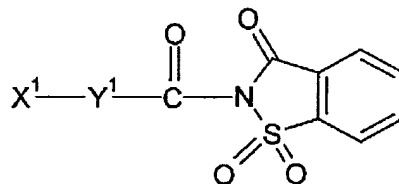
Ar^1 is an arylene; and

said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

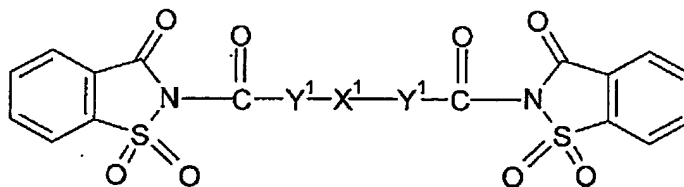
7. (Original) The compound of claim 1, wherein Z^1 is a C_{1-10} alkyl and R^1 is a C_{1-10} fluoroalkyl.

8. (Original) The compound of claim 1, wherein Z^1 is an aryl and R^1 is a C_{1-10} fluoroalkyl.

9. (Original) The compound of claim 1, where the compound is of formula



where X^1 is monovalent or

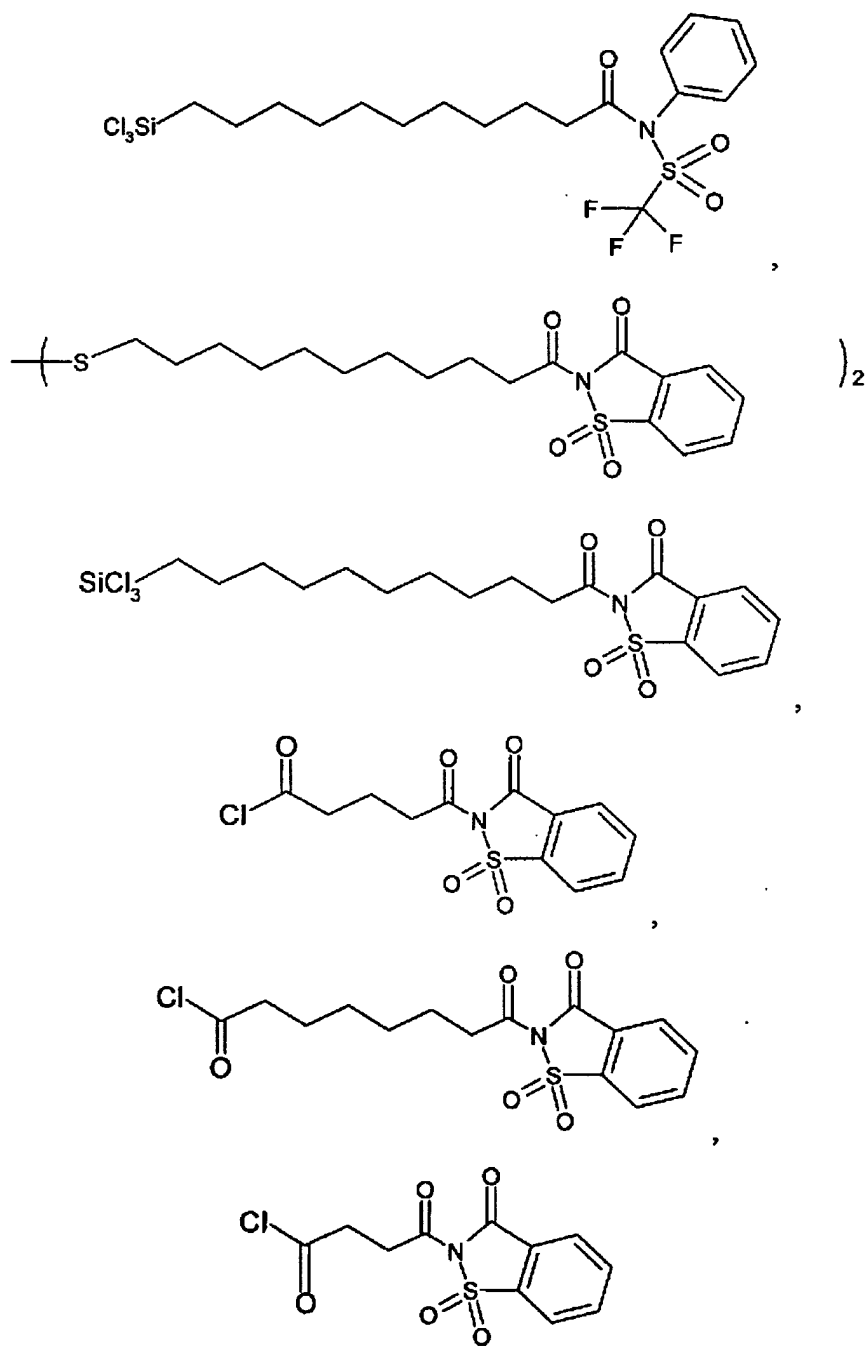


where X^1 is divalent and said compound is unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

10. (Original) The compound of claim 1, wherein the compound is

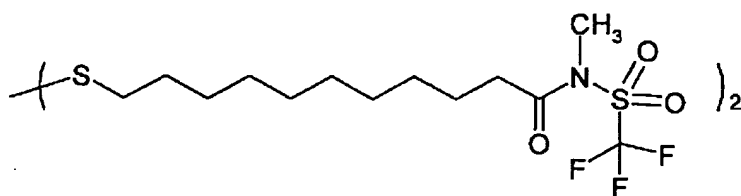
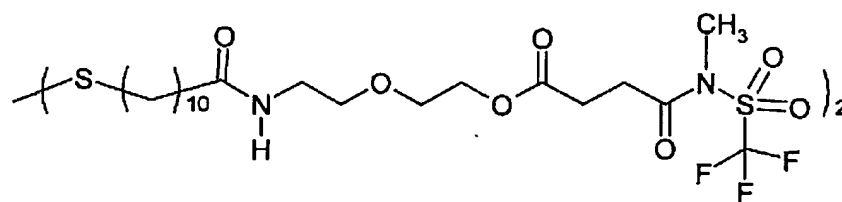
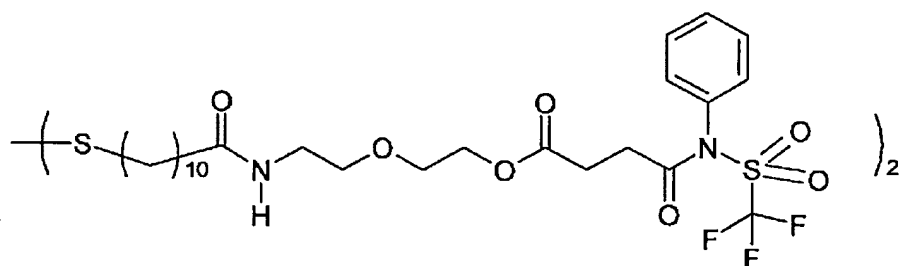
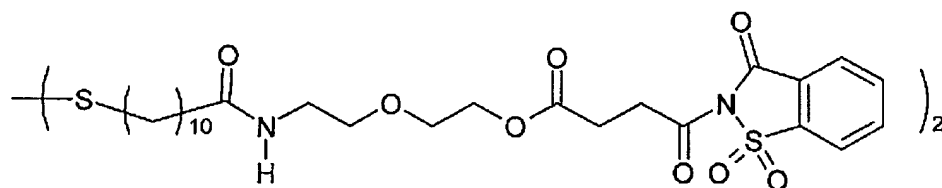
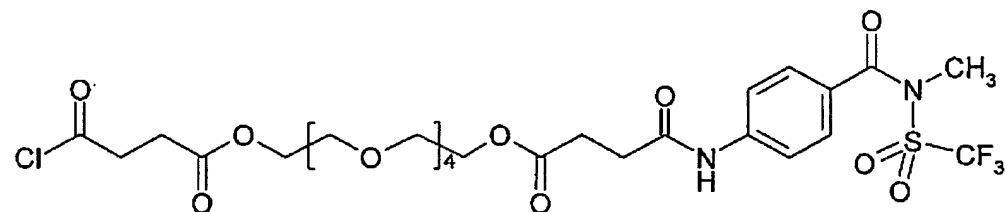
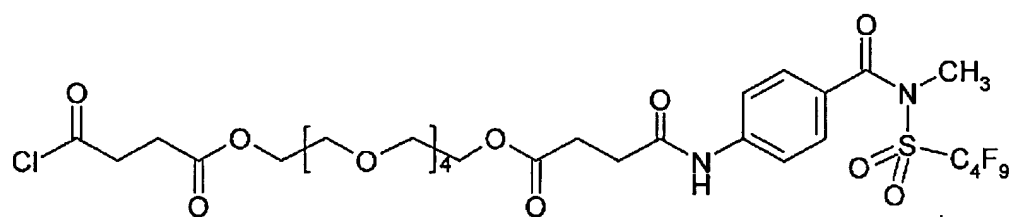
Application No.: 10/713174

Case No.: 58627US002



Application No.: 10/713174

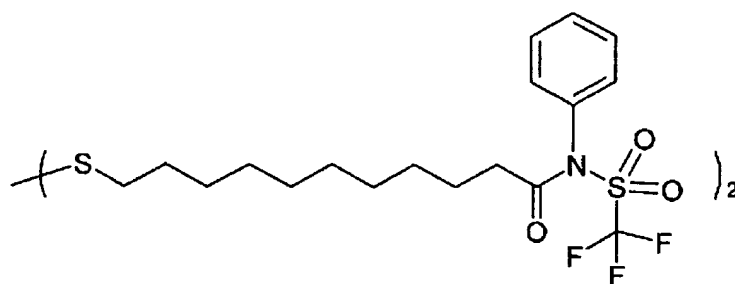
Case No.: 58627US002



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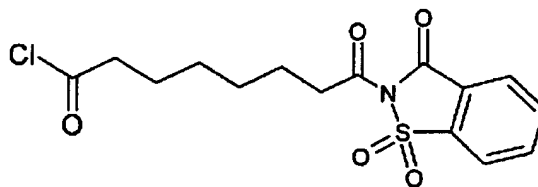
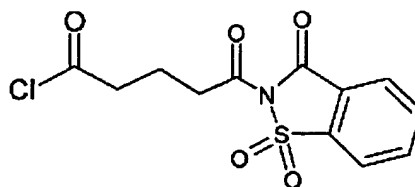
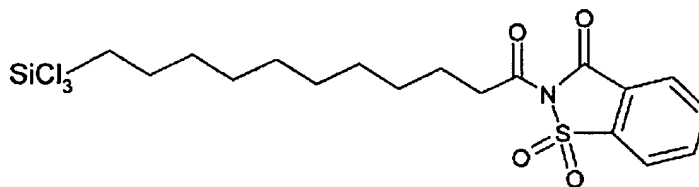
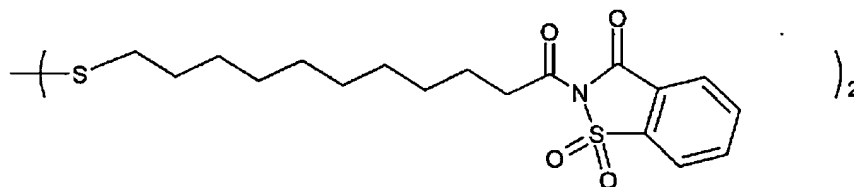
Application No.: 10/713174

Case No.: 58627US002



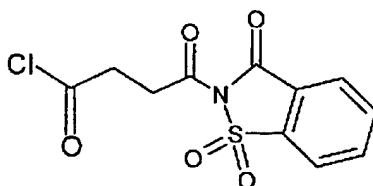
said compound being unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

11. (Original) The compound of claim 1, wherein the compound is

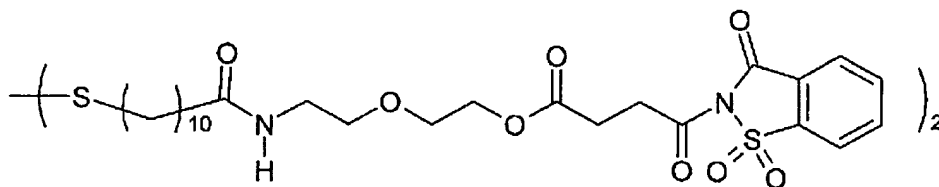


Application No.: 10/713174

Case No.: 58627US002

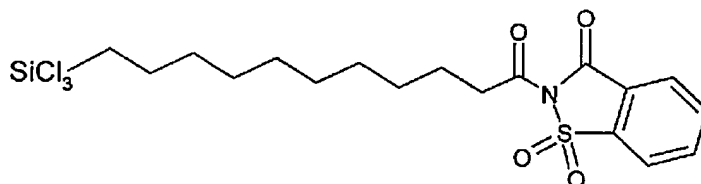


, or



said compound being unsubstituted or substituted with a halo, alkyl, alkoxy, or combinations thereof.

12. (Original) The compound of claim 1, wherein the compound is



- 13-35. (Cancelled)

36. (New) The compound of claim 1, wherein Y^1 comprises at least one heteroalkylene and at least one alkylene.

37. (New) The compound of claim 1, wherein Y^1 comprises at least one alkylene.

38. (New) The compound of claim 1, wherein Y^1 comprises at least one heteroalkylene having an oxy group or a $\text{---NR}^d\text{---}$ group.

Application No.: 10/713174

Case No.: 58627US002

39. (New) The compound of claim 1, wherein X^1 is halosilyl, alkoxysilyl, or acloxysilyl.
40. (New) The compound of claim 1, wherein X^1 is disulfide or alkyl disulfide.
41. (New) The compound of claim 1, wherein Z^1 is $-(CO)R^a$ wherein R^a together with R^1 and groups to which they are attached form a five membered heterocyclic group.
42. (New) The compound of claim 41, wherein the five membered heterocyclic group is fused to a benzene ring.

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